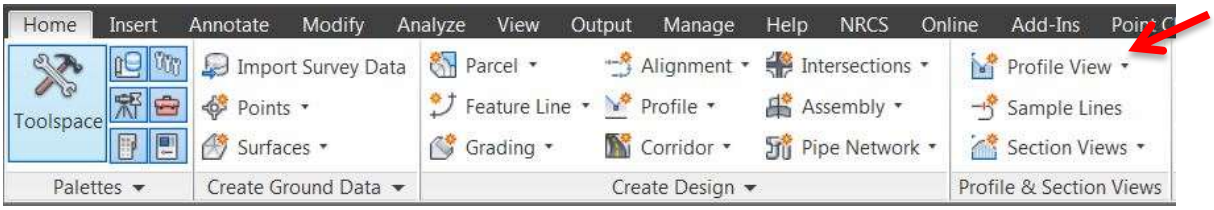
PROJECT OBJECTS TO A PROFILE VIEW

Background: Kelly Albers, Basin Engineer, had created an alignment and profile from a surface based on LiDAR data that included a channel. She surveyed the centerline of the channel bottom to acquire a more accurate location of the channel as well as elevations. Then she wanted to project that surveyed centerline onto the profile created from the alignment and surface based on the LiDAR. The following are her steps:

1. Surveyed channel bottom and imported the survey points into Civil 3D.

2. Connect points with a 3d polyline using 'OSNAP' set to 'NODE'. (see alternate option below)

3. Select the 'Home' tab on the Ribbon and go to the 'Profile & Section Views' panel. Next select the 'Profile View' drop-down arrow and select 'Project Objects to Profile View'.



4. Select objects in the drawing that you want to project to the profile. Right-click or press Enter after all objects are selected.

5. Select the profile view in which you want the objects to appear.

6. In the 'Project Objects to Profile View' dialog box, verify the settings such as 'Elevation Options' and 'Label Style', then select OK.

ALTERNATE OPTION FOR STEP 2 ABOVE

a) Start the 3DPOLY command.

b) Use the **Point Number Transparent ('PN) command, inputting point numbers or a range of numbers until the polyline is completed. Example: 'PN 1-3, 16, 27-64, where 'PN is the Point Number Transparent command and the numbers are the points or range of points for the 3D polyline to be drawn. (If the points were surveyed in a continuous line then the 'PN command would be a real quick way to complete the 3D polyline.)

c) When the line has completed forming, press the ESC key twice to exit the 'PN command and the '3DPOLY' command.

**Note: A transparent command is one that adds quick access functionality within a larger command. In this case 'PN allows adding point numbers while already in the 3DPOLY command.